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(54) DATA TRANSMISSION SYSTEM IN CSMA/CD
BUS TYPE LAN

(57) Abstract:

PURPOSE: To prevent re-collision of transmission data by controlling stations other than a station with collision occurred therein so as not to send a data till the retransmission of the collided data is finished if data collision takes place between two stations.

CONSTITUTION: When a station 3 starts the transmission of a data 9 till a data 4 reaches a station C3 after a station A1 starts the transmission of the data 4, collision 8 takes place and the stations 1, 3 generate collision detection signals 5, 10 and sends jam signals 6, 11. When a station B2 detects the jam signals at a detection point 16, a longest data retransmission interval 17 is calculated by the back-off algorithm. Even if a data transmission requests comes within the retransmission interval 17 and a channel is not busy, the data transmission is not given but a data 13 is sent while awaiting a back-off time and a frame interval

time. Thus, the signal is sent without collision with data 4, 9 of the stations 1, 3 and the retransmission data 7, 12 of the stations 1, 3 are sent without collision. That is, the recollision of the sent data is prevented.

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